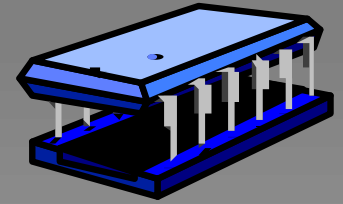


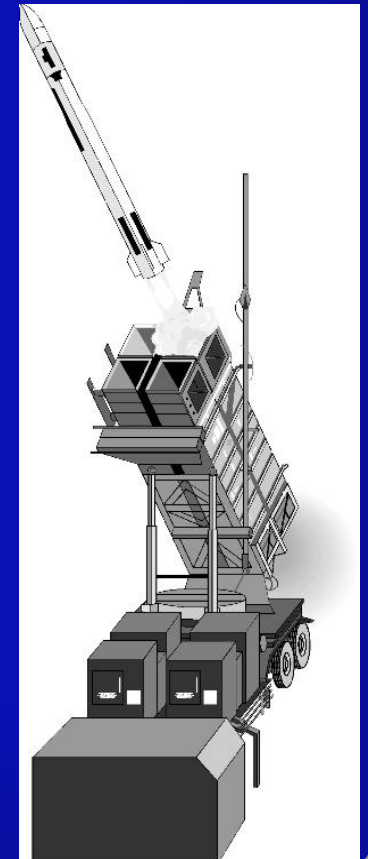
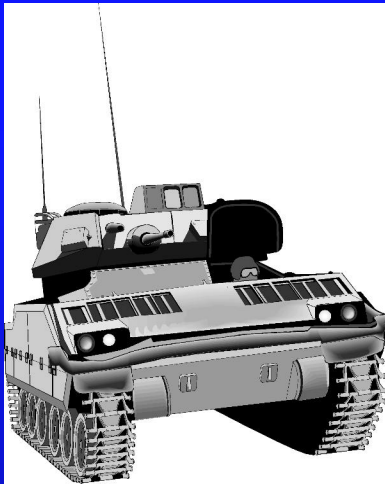


# MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS

US ARMY MISSILE COMMAND



## ARMY MICOM INFRASTRUCTURE



**Parts Obsolescence Workshop**

**April 22, 1997**

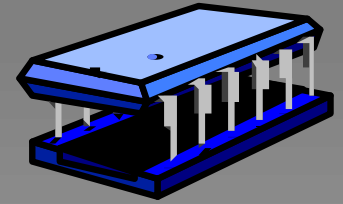
**Robert E. Gibbs**

**SEPD**



# **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

US ARMY MISSILE COMMAND



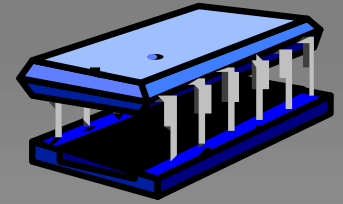
## **○ PURPOSE**

- **Provide Obsolescence Management Throughout System Life Cycle**
  - **Design**
  - **Production**
  - **Post Production**
- **Proactive**
- **Reactive**



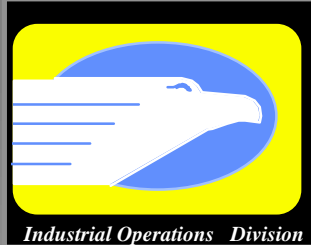
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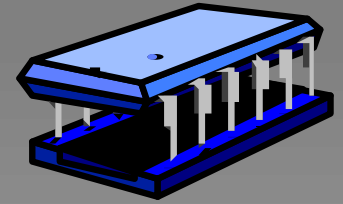
## **SUPPORT PROVIDED BY THE MICROELECTRONICS TEAM**

- **DESIGN PHASE**
  - COMPONENT SELECTION
  - TECHNOLOGY TRENDS
- **PRODUCTION**
  - MONITOR DIMINISHING MANUFACTURING SOURCE CONDITIONS
  - DETERMINE SOLUTION(S) FOR OBSOLESCENCE PROBLEMS
  - COORDINATE SOLUTION IMPLEMENTATION
- **SPARES**
  - SYSTEM READINESS THROUGH PROACTIVE COMPONENT MONITORING
  - NETWORK OF VALID COMPONENT SOURCES, SUPPLIERS
  - COORDINATION OF IMMC, ACQ CENTER, PROJECT OFFICE PERSONNEL ON SPARES PROBLEMS



# **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

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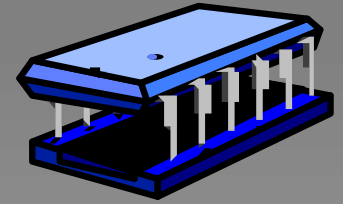
## **CUSTOMERS**

- **ATACMS  
BLOCK I/A  
BLOCK II  
BAT**
- **PATRIOT  
RADAR  
BUY 13 CONFIG.  
IMMC/RAY. CONFIG.**
- **JAVELIN**
- **CCAWS  
BRADLEY  
IBAS  
ITAS  
ISU  
MGS**
- **MLRS  
IFCS  
FCS  
ILMS**
- **PAC-3**
- **EFOGM**
- **THAAD**
- **ACQUISITION CENTER**
- **GBS**
- **IMMC**



# **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

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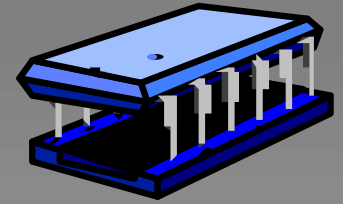
## **○ STATE OF OBSOLESCENCE PROCESS**

- **Compile List of Microcircuits to be Evaluated**
- **Create a Part Information File Containing Individual Microcircuit Information**
- **Screen Each Part to Determine Its State of Obsolescence**
- **Categorize the Parts Into One of the Following Groups:**
  - **RED Group: Highest Risk - Obsolete**
  - **YELLOW Group: Medium Risk - Single Source**
  - **GREEN Group: Lowest Risk - At Least Two Candidate Sources Available**



# **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

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## **○ RESULTS**

- **Detailed Database of System's Electronic Components**
- **Obsolescence Management Planning Document**
  - Proactive Management
  - Provides Status of System's Microelectronics Health
  - Provides Problem Resolution Recommendations
  - Allows Quick Response on Reactive Problems
- **Cost Avoidance**
  - System Readiness Maintained
- **Basis for Ongoing Health Monitoring**

# TIP OF THE ICEBERG

OBSOLETE  
COMPONENTS

OBSOLETE  
CIRCUIT CARD

OBSOLETE  
SUBASSEMBLY

OBSOLETE  
ASSEMBLY

PRESENT DAY  
OBSCULESCENCE  
MANAGEMENT

***FUTURE***

Plastic Encapsulated  
Microcircuits

Performance  
Specification Impact

Commercialization

***FOCUS***

## OBSCULESCENCE

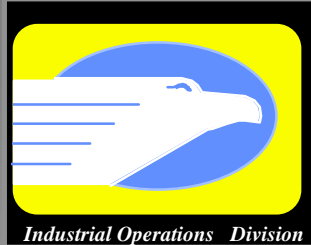
Design Concepts  
Impacts

Non-Standardization

Non-Electrical  
Obsculation

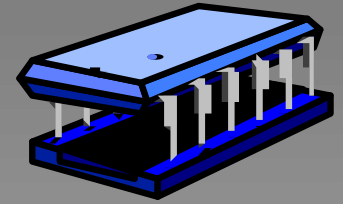
Diminishing  
Passive Devices

Contract Logistics



## **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

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# **ENHANCE PROACTIVE MANAGEMENT OF OBSOLESCENCE**

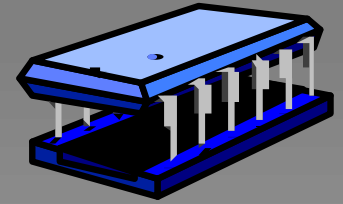
- Build on Established Assessment Process**
- Maintain Existing Databases**
- Evaluation of Contractor Obsolescence Management**
- Identify Possible Funding Strategies for Obsolescence Management**





## **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

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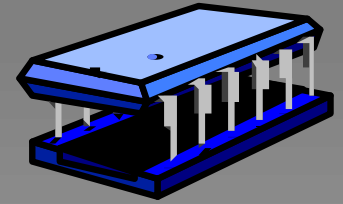
# **ENHANCE PROACTIVE MANAGEMENT OF OBSOLESCENCE**

- **Expand Boundaries to Include:**
  - **Focus on the Use of Commercial Standards and Components**
  - **Capitalize on Other DoD Experiences**
  - **Assist in the Decision Making of Parts Selection**
  - **Promote the Exchange of Data on Obsolescence Management**
  - **Provide Technical Assistance in New Areas Impacted by Anticipated Obsolescence Through IPTs and Other Management Team Efforts**
  - **Assist in the Development of Proactive Management Action Plans as Requested**



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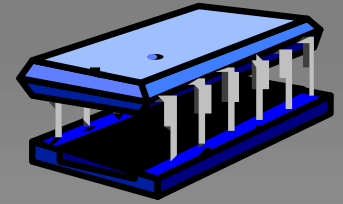
### **OBSOLESCENCE MANAGEMENT RECOMMENDATIONS**

- ① Proactive Obsolescence Management be Included in IPT's for All Systems.**
- ② Government Conduct Assessments on All Systems. Contractor Implement Recommendations.**
- ③ Utilize Common Solution Strategy for Cost Efficiency.**
- ④ Communicate - Communicate - Communicate**



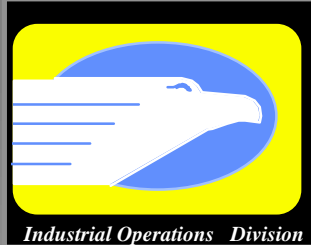
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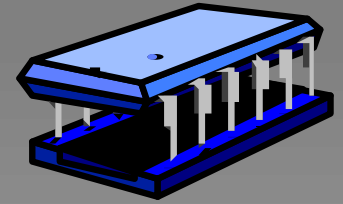
### **CLOSING REMARKS**

- **Presentations on Web Site:**
  - **URL: <http://ippd.redstone.army.mil/io/pcontrol.html>**
- **Intent: Provide Government and Industry Perspectives on Commercialization, Its Use, Experiences and Resources**



## **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

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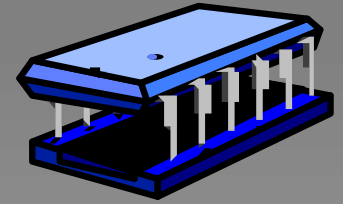
### **CLOSING REMARKS**

- **Other Related Conferences/Workshops/Symposiums**
  - **Modernization Through Spares Conference**
    - **Redstone, 28 - 29 May 97**
  - **DoD DMSMS Symposium**
    - **San Antonio, Texas**
    - **25 - 28 August 97**
  - **GIDEP Clinic - Training on the GIDEP Program**
    - **20 - 22 May @ GIDEP Operations Center**



# **MICROELECTRONICS TEAM PRODUCTION CONTROL GROUP INDUSTRIAL OPERATIONS**

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## **POINTS OF CONTACT :**

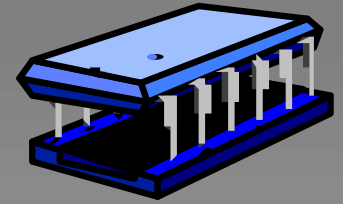
**Bob Gibbs ..... 205-842-9403**

**Dan Frey ..... 205-842-1258**



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## **ARMY MICOM INFRASTRUCTURE**



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